

ABSTRACT

A fuel injection method is provided for correcting the fuel injection amount accurately by eliminating offset components when detecting a current flowing through a solenoid for fuel injection. A

5 current component, which is detected during normal running and a drive current flowing through the solenoid for fuel injection is OFF (Step 11), is input to an A/D converter that stores the value thereof (Step 12). Thereafter, the drive current is turned ON (Step S13), elapse of a fixed time period is waited (Step S14), and an input voltage of the A/D

10 converter is detected (Step S15). A difference current (offset component) is calculated by subtracting the offset voltage from the input voltage (Step S16), and a current span is adjusted based on a span correction factor (Step S17). Thereafter, a pulse width current correction factor is calculated (Step S2a) and, based on the pulse width

15 current correction factor, a drive pulse width is calculated (Step S2b) and provided to the solenoid.